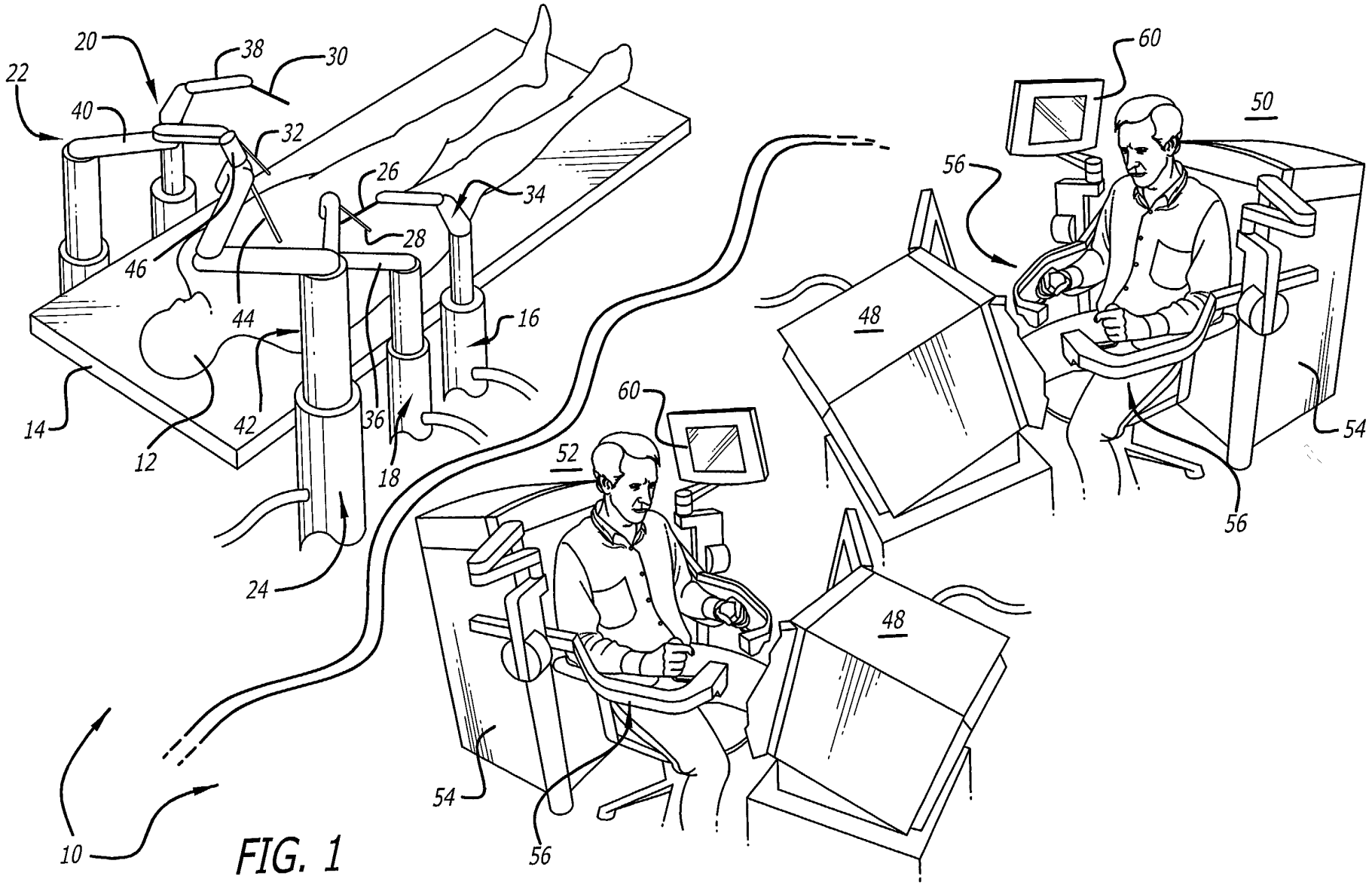
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56
48
54
52
60
48
54
56

FIG. 1

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FIG. 2

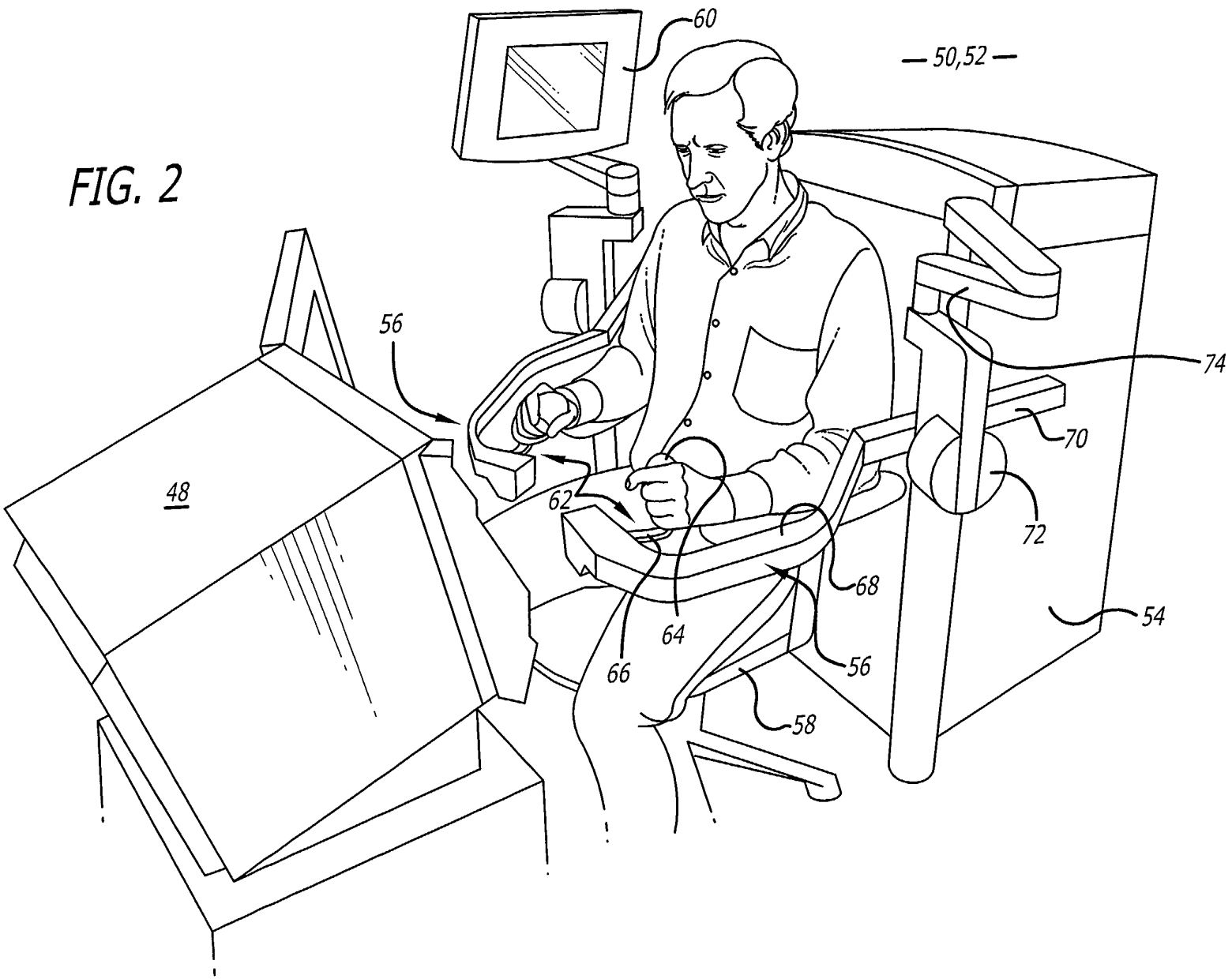
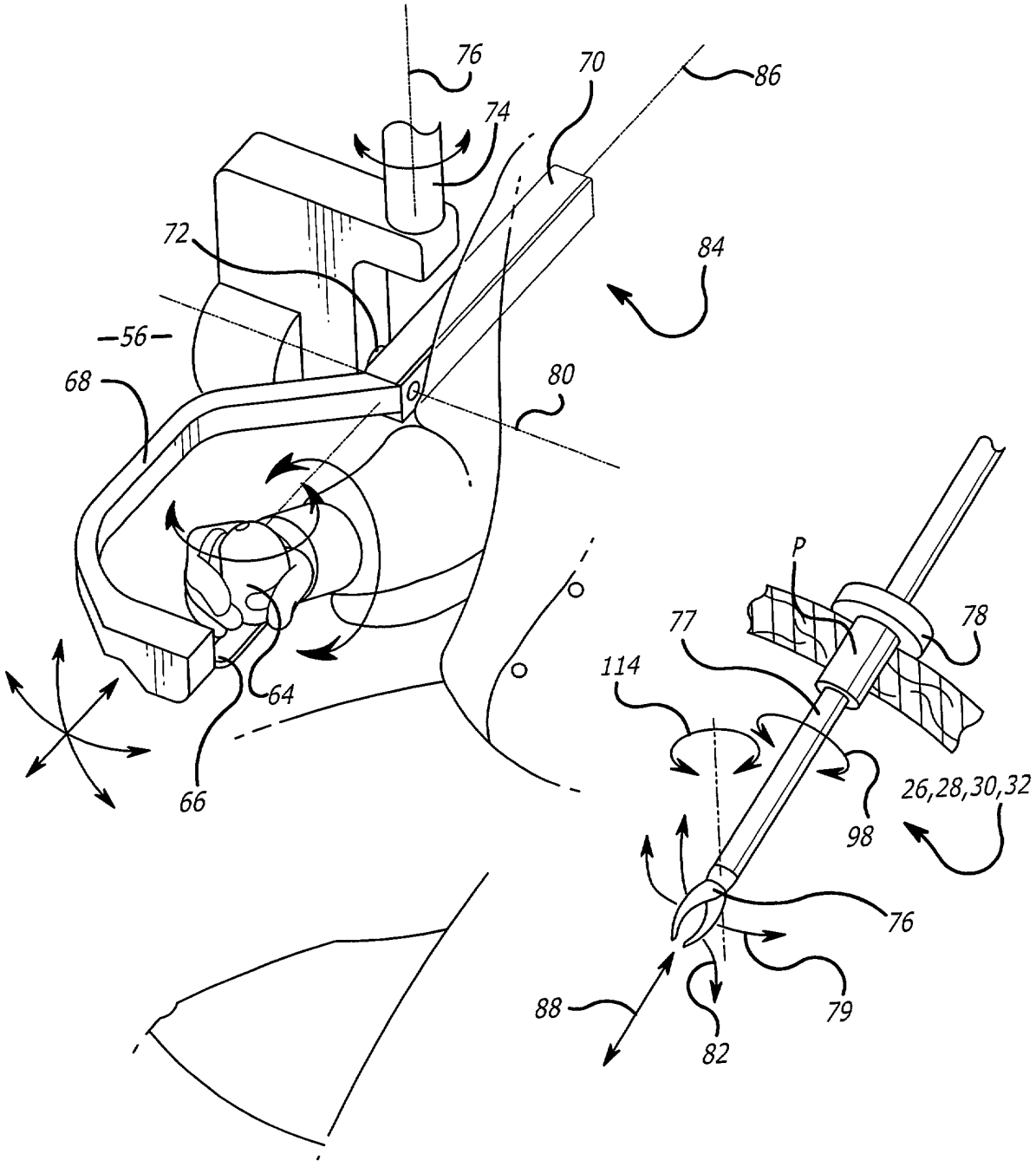


FIG. 3



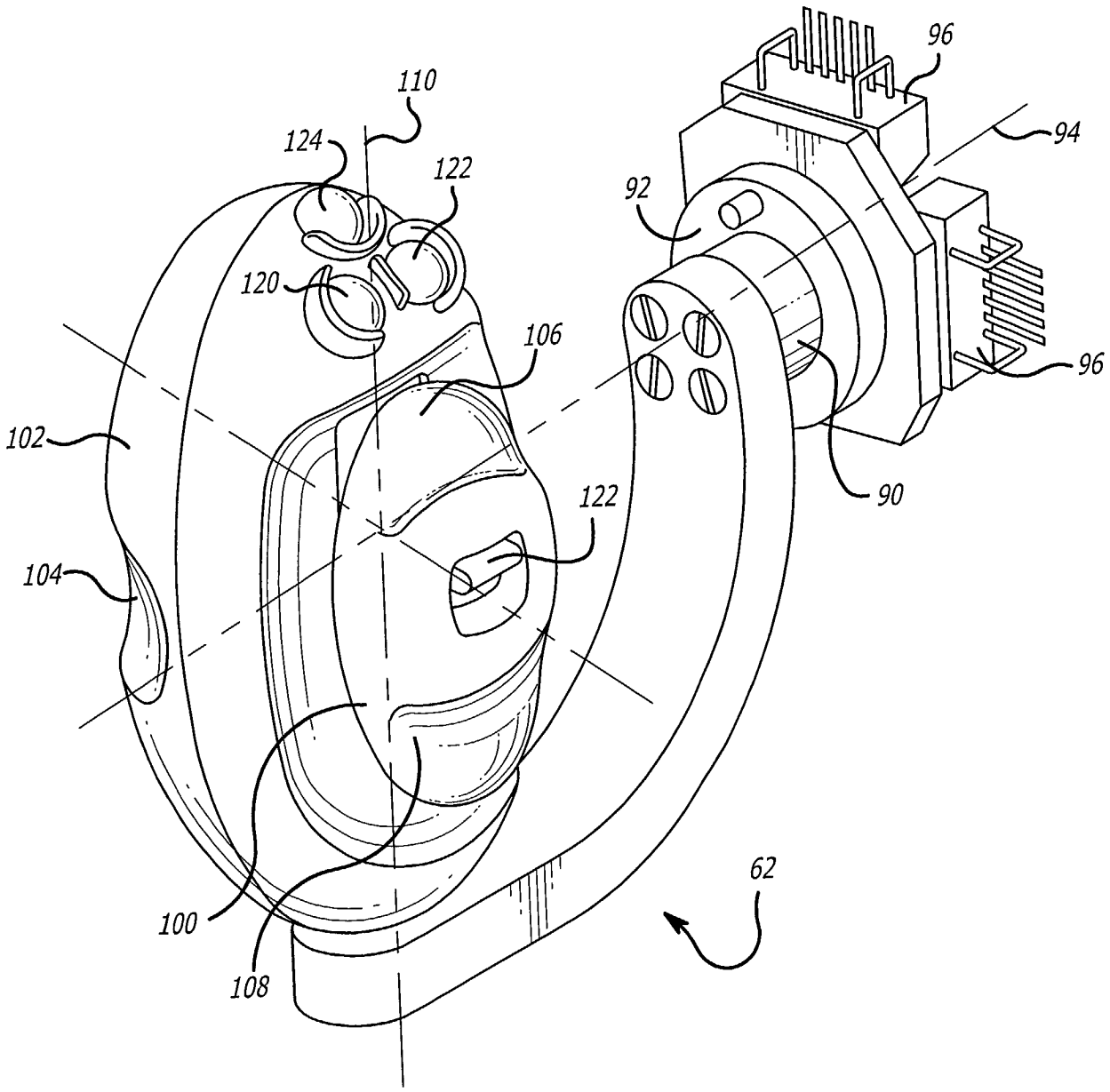


FIG. 4

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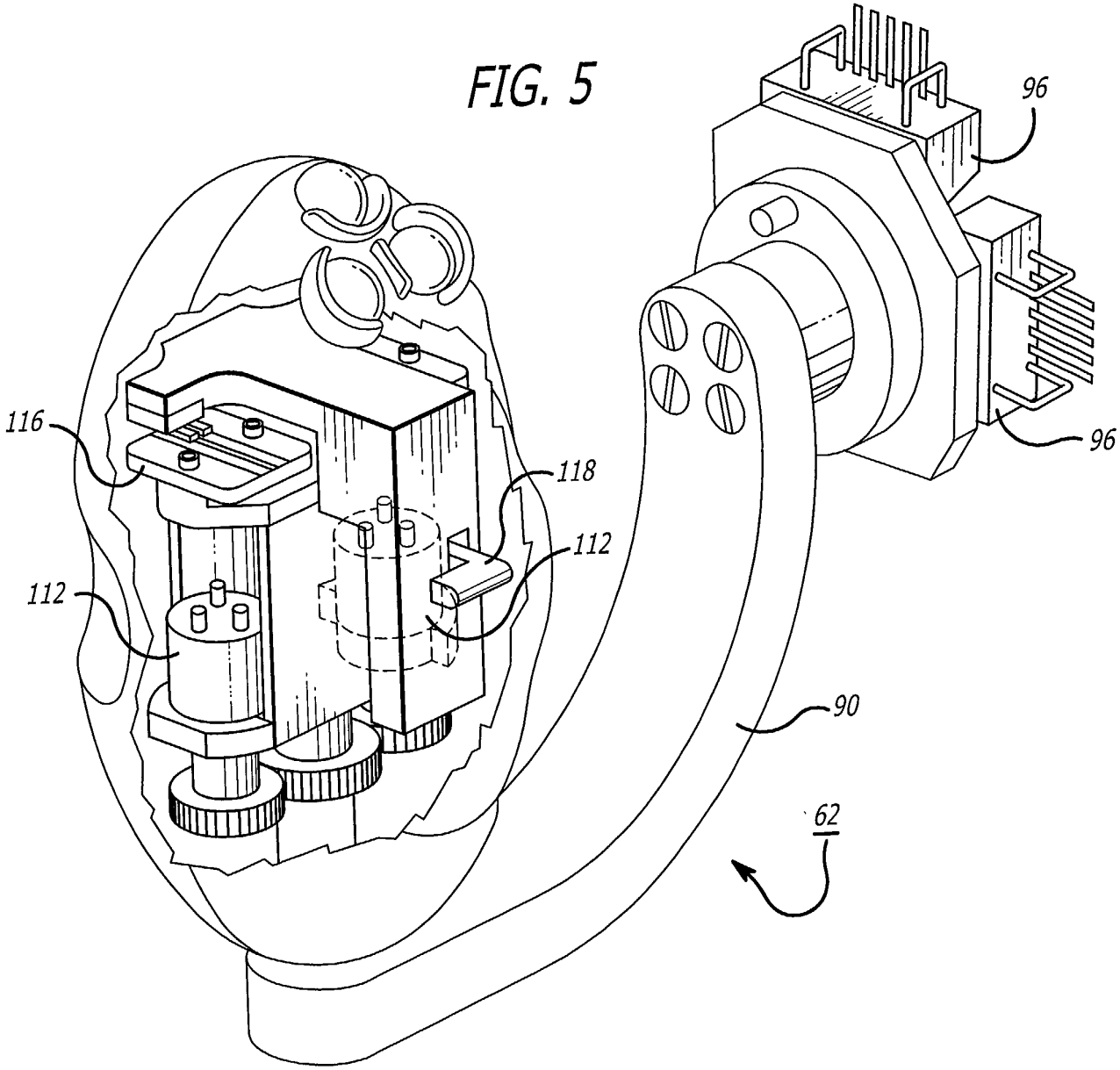
FIG. 5



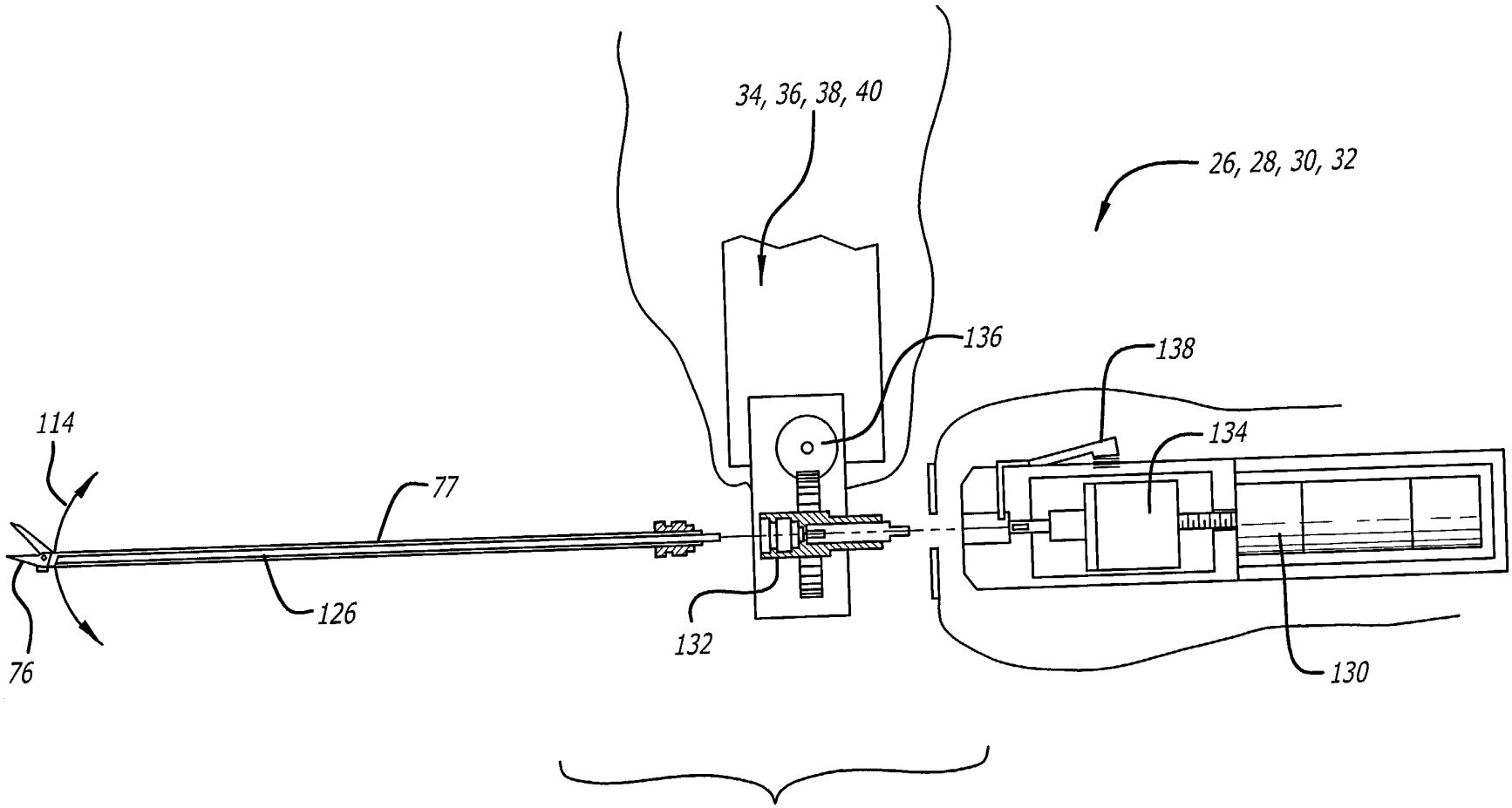


FIG. 6

FIG. 7

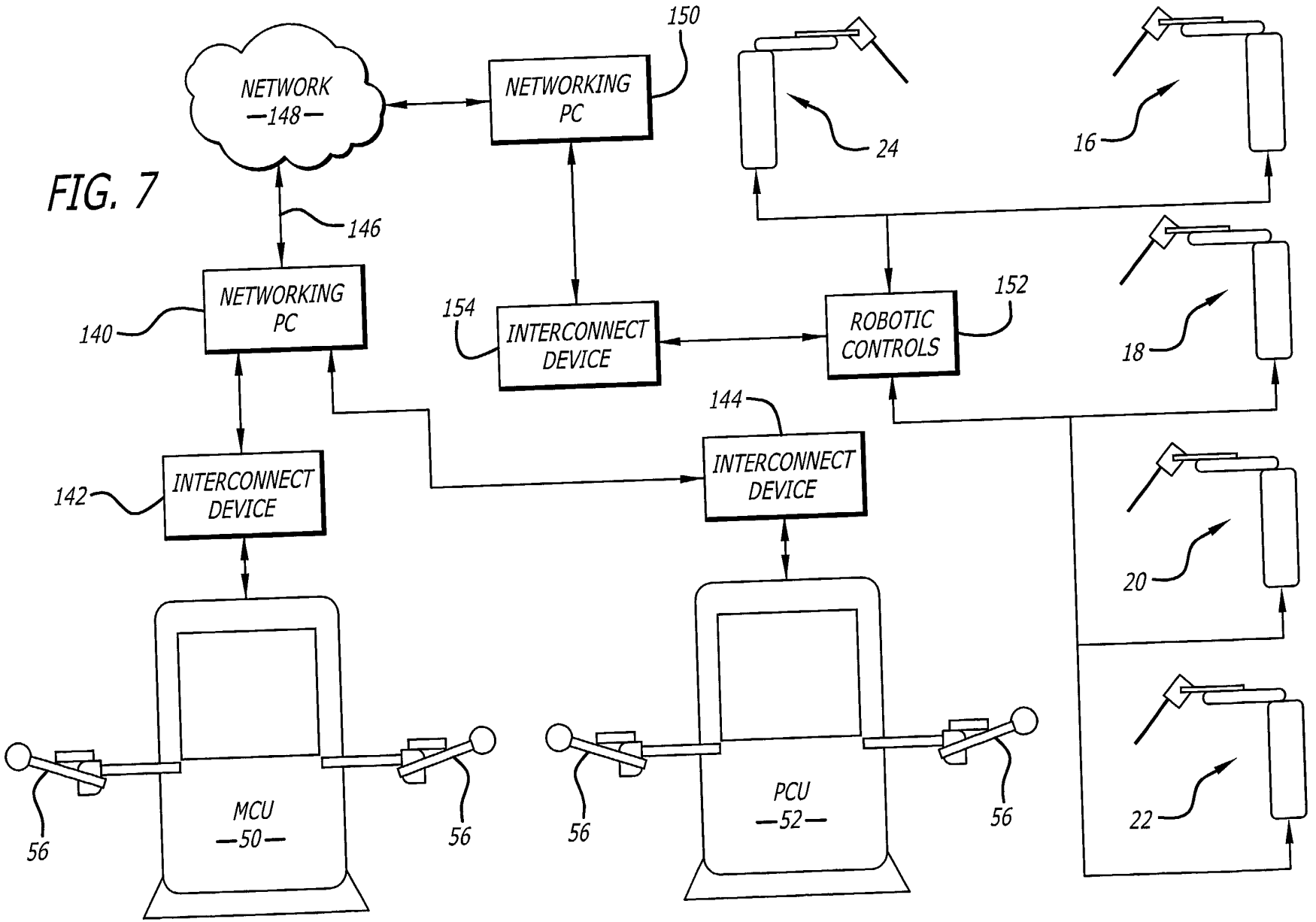

NETWORK
148
NETWORKING PC
150
24
16
146
NETWORKING PC
140
154
INTERCONNECT DEVICE
ROBOTIC CONTROLS
152
18
144
INTERCONNECT DEVICE
142
INTERCONNECT DEVICE
20
MCU
50
PCU
52
56
56
56
56
22

FIG. 8

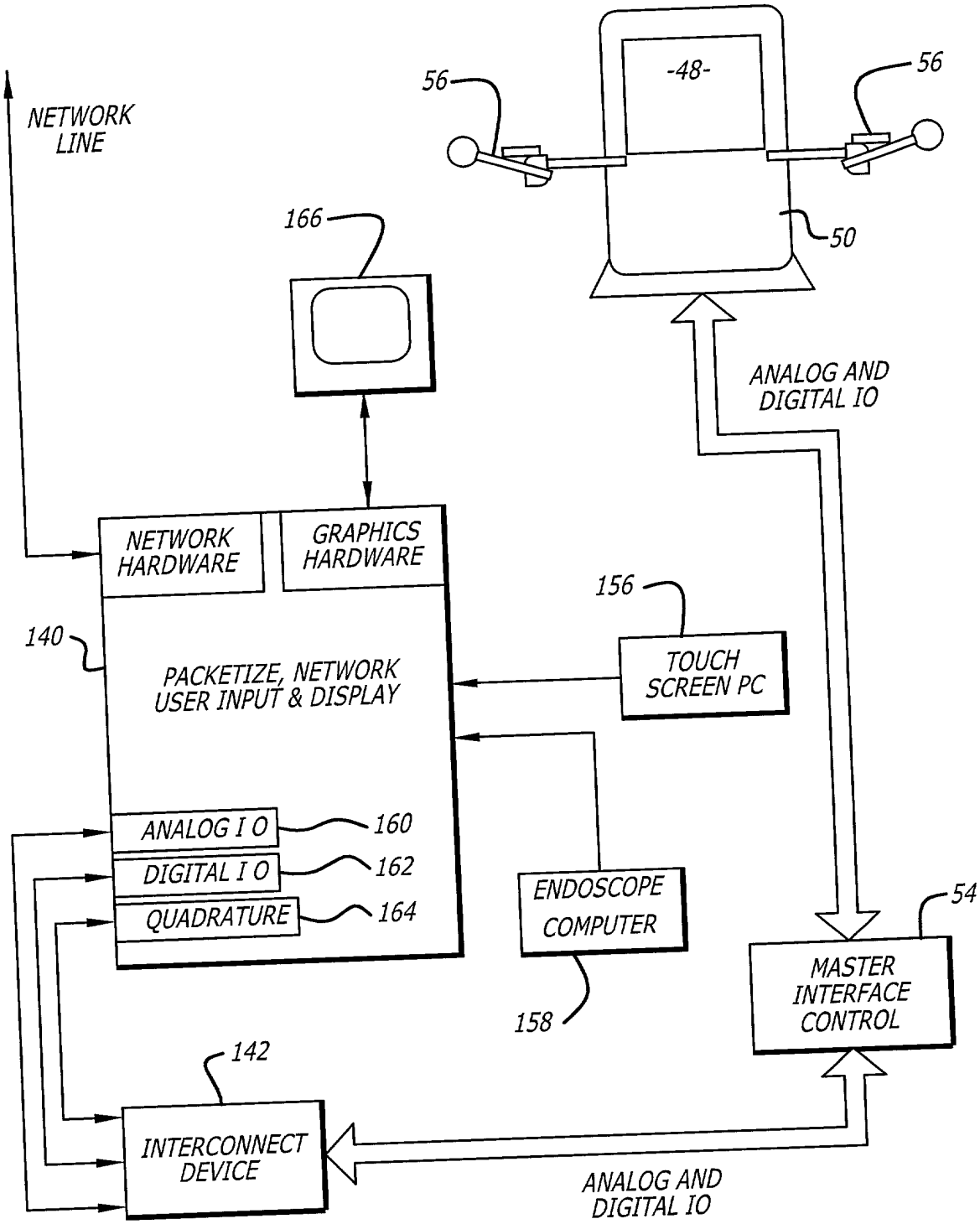

NETWORK LINE
56
-48-
56
50
166
ANALOG AND DIGITAL IO
NETWORK HARDWARE
GRAPHICS HARDWARE
156
140
TOUCH SCREEN PC
PACKETIZE, NETWORK USER INPUT & DISPLAY
ANALOG I O
160
DIGITAL I O
162
QUADRATURE
164
ENDOSCOPE COMPUTER
54
MASTER INTERFACE CONTROL
158
142
INTERCONNECT DEVICE
ANALOG AND DIGITAL IO

FIG. 9

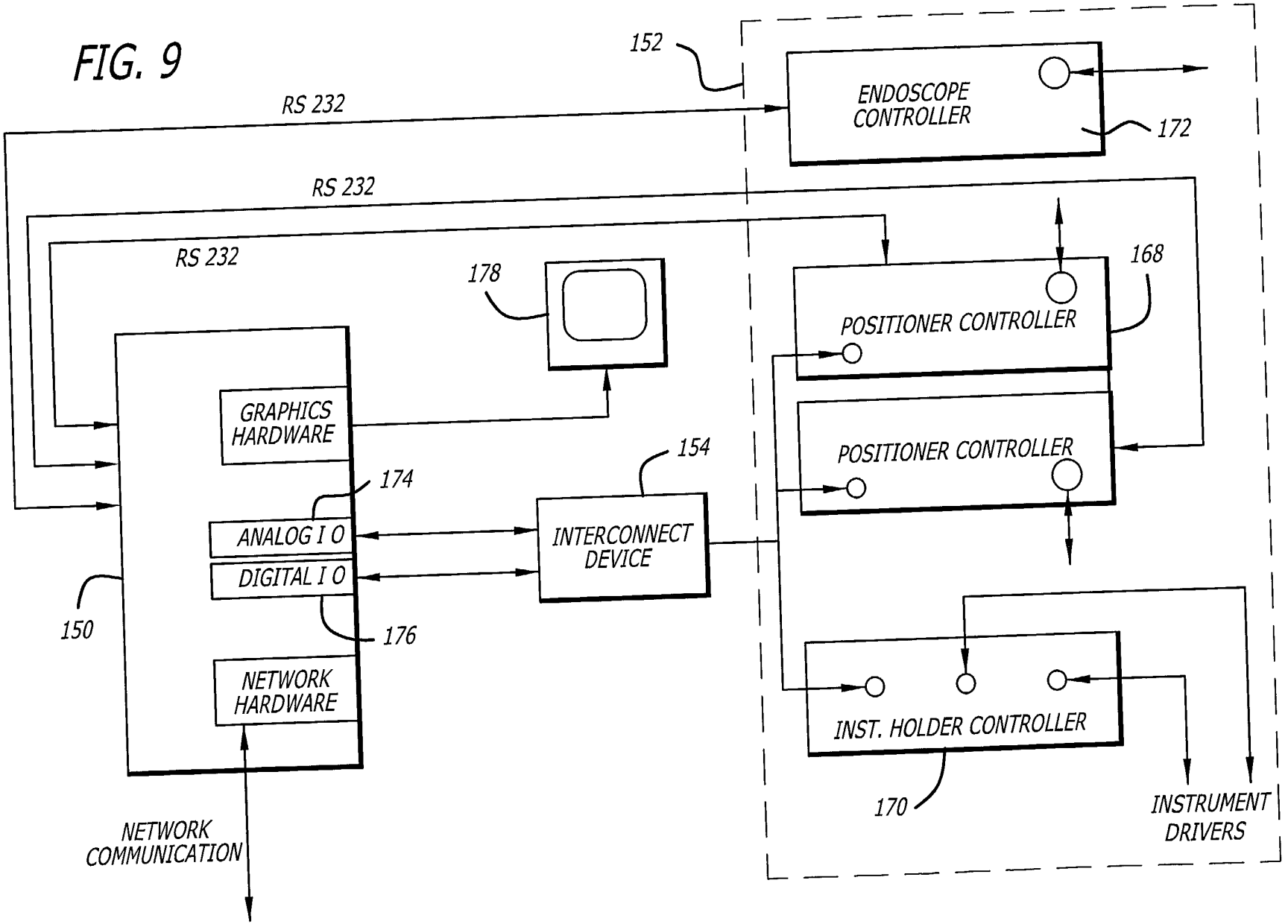
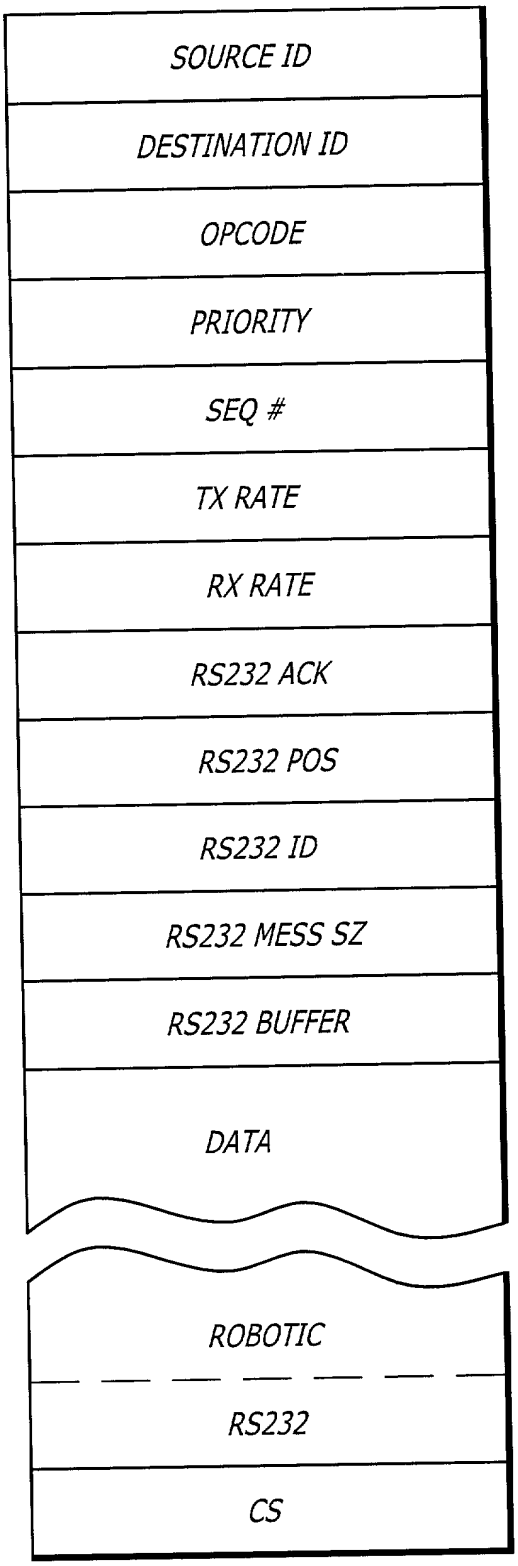
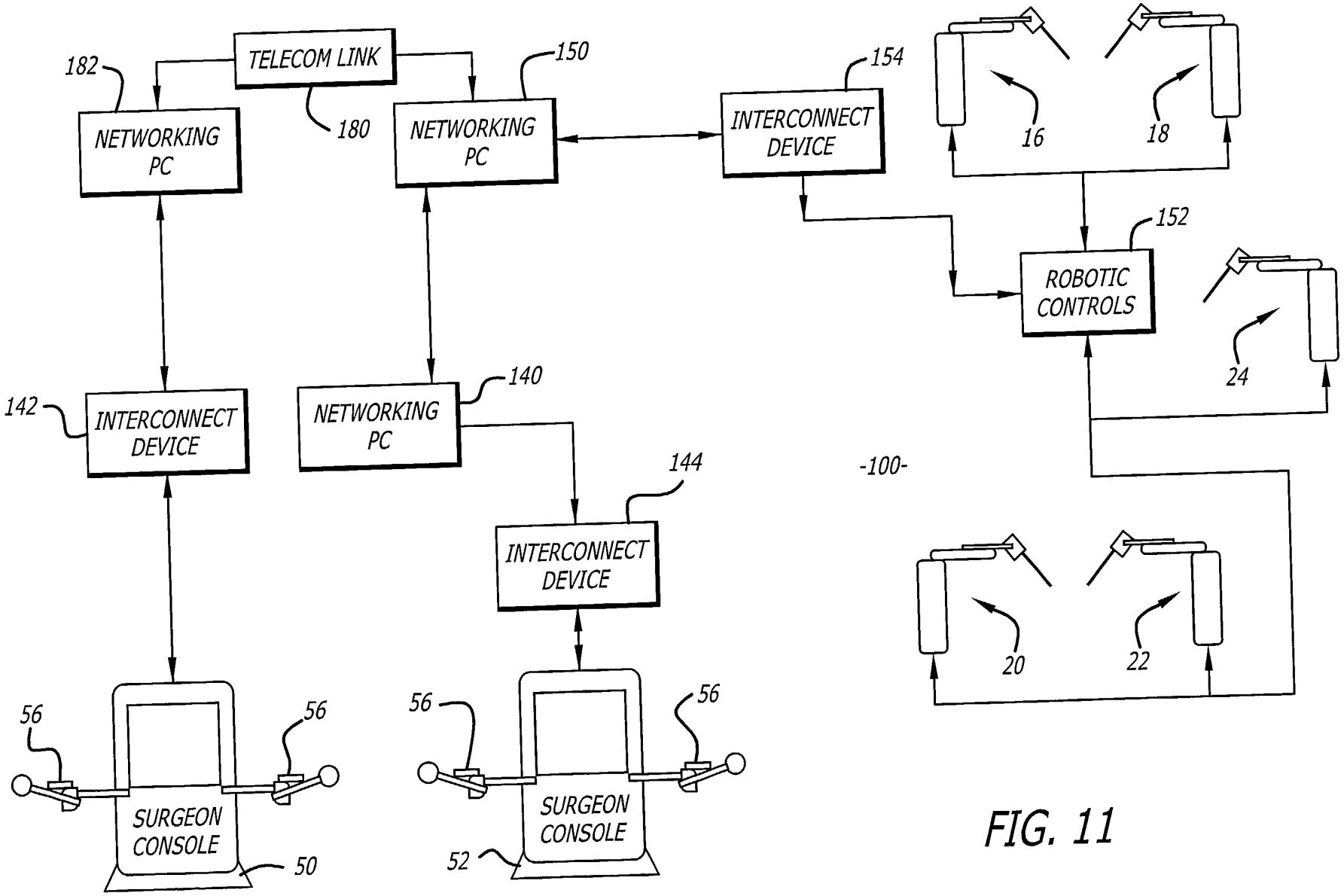

152
ENDOSCOPE CONTROLLER
172
RS 232
RS 232
RS 232
178
168
POSITIONER CONTROLLER
POSITIONER CONTROLLER
GRAPHICS HARDWARE
154
174
ANALOG I O
DIGITAL I O
INTERCONNECT DEVICE
150
176
NETWORK HARDWARE
INST. HOLDER CONTROLLER
170
INSTRUMENT DRIVERS
NETWORK COMMUNICATION

FIG. 10


SOURCE ID
DESTINATION ID
OPCODE
PRIORITY
SEQ #
TX RATE
RX RATE
RS232 ACK
RS232 POS
RS232 ID
RS232 MESS SZ
RS232 BUFFER
DATA
ROBOTIC
RS232
CS


TELECOM LINK
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NETWORKING PC
NETWORKING PC
INTERCONNECT DEVICE
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152
ROBOTIC CONTROLS
24
142
INTERCONNECT DEVICE
140
NETWORKING PC
144
INTERCONNECT DEVICE
-100-
20
22
56
56
56
56
SURGEON CONSOLE
SURGEON CONSOLE
50
52

FIG. 11

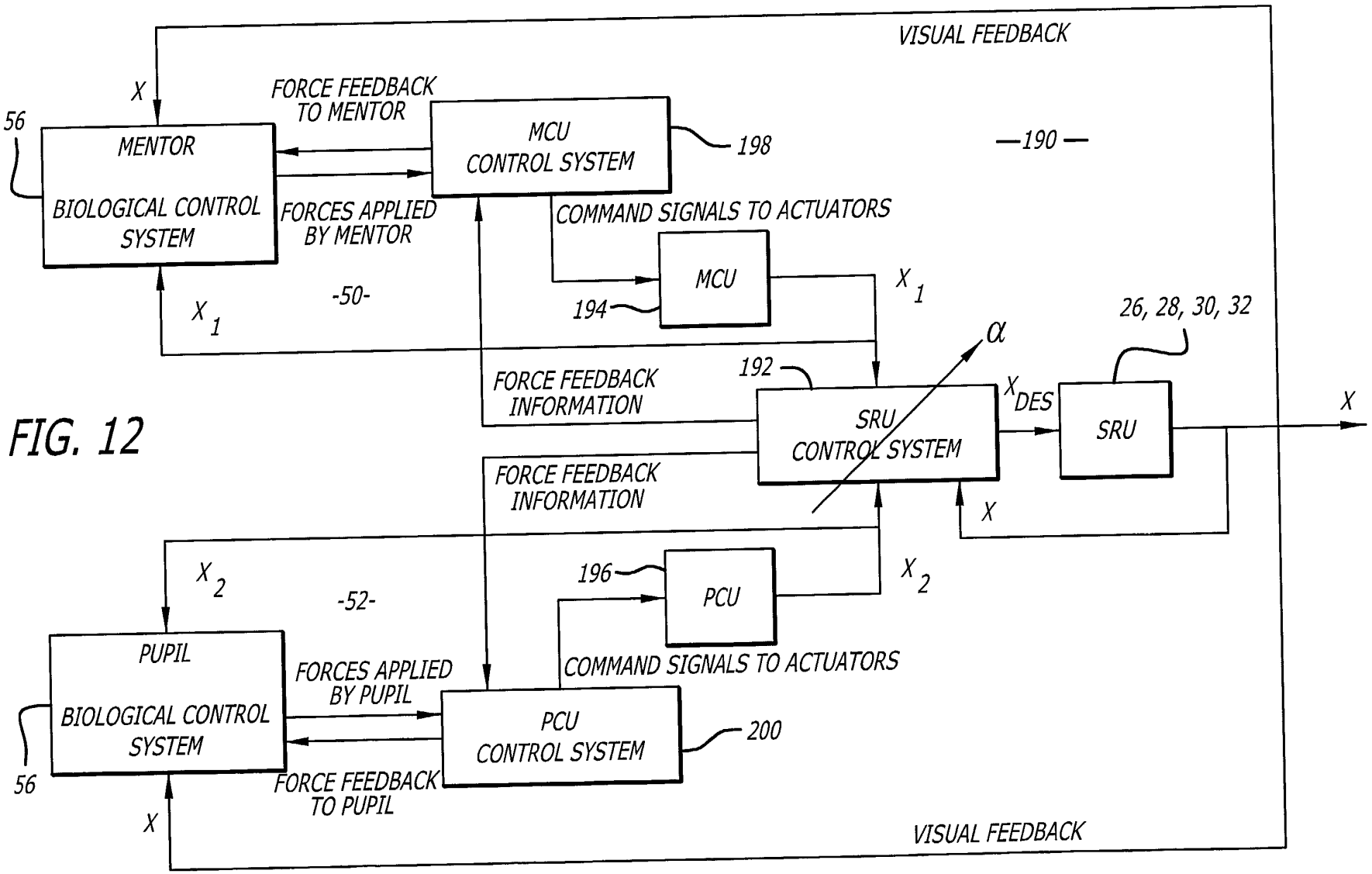
VISUAL FEEDBACK
X
FORCE FEEDBACK TO MENTOR
56
MENTOR BIOLOGICAL CONTROL SYSTEM
MCU CONTROL SYSTEM
198
190
FORCES APPLIED BY MENTOR
COMMAND SIGNALS TO ACTUATORS
MCU
194
X 1
-50-
X 1
26, 28, 30, 32
α
192
FORCE FEEDBACK INFORMATION
X DES
SRU CONTROL SYSTEM
SRU
X
FORCE FEEDBACK INFORMATION
X
X 2
196
PCU
X 2
-52-
PUPIL BIOLOGICAL CONTROL SYSTEM
FORCES APPLIED BY PUPIL
COMMAND SIGNALS TO ACTUATORS
PCU CONTROL SYSTEM
200
56
FORCE FEEDBACK TO PUPIL
X
VISUAL FEEDBACK

FIG. 12

Search Report

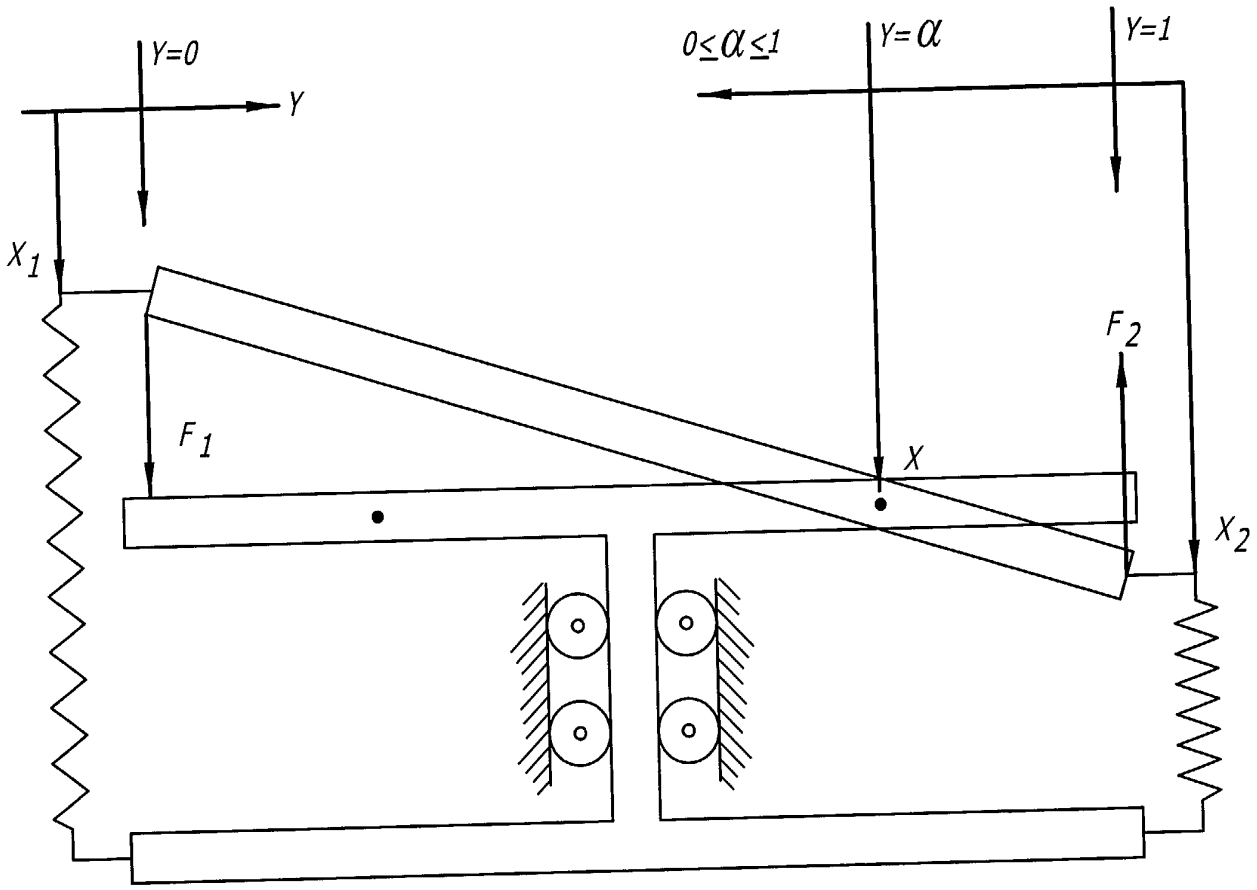

FIG. 13